2015 Space Weather Workshop Agenda

Millennium Hotel Ballroom

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Monday,	AULI	ııJ

9:00 - 4:50	GOES-VW	(NEXT) I	Requirements	Session
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5:00 - 7:00 Welcome Networking Session (NCAR Mesa Lab – 1850 Table Mesa Drive)

Bus transportation available

Tuesday, April 14

8:30 Conference Welcome

Brent Gordon, NOAA/SWPC

8:35 State of the Space Weather Prediction Center

Tom Berger, NOAA/SWPC

8:45 Space Weather in Boulder: A Brief History

Ernest Hilder, Former Director, Space Environment Center

9:10 Solar Maximum...We Hardly Knew Ye

Doug Biesecker, NOAA/SWPC

9:25 - 9:45 Break

9:45 - 11:15 Space Weather National Strategy

Chair: William Murtagh, Office of Science and Technology Policy

9:45 Task Force Overview

Co-leads: Tamara Dickinson, OSTP/Louis Uccellini, NWS

10:00 - 11:15 Panel: Goal Team Leads

Seth Jonas, STPI; Andrew Sabata, FEMA; Sarah Ellis Peed, DHS; Tom Berger, SWPC; Chris Cannizzaro, DOS

11:15 - 12:15 DSCOVR

Chair: Alysha Reinard, CIRES

11:15 DSCOVR – Halfway to L1

Doug Biesecker, NOAA/SWPC

11:35 Instrumentation - Capabilities and Calibration Test Plans

Adam Szabo, NASA/GSFC

11:55 Space Weather Follow-on

Pat Mulligan, NOAA/NESDIS

12:15 - 3:00 Lunch

1:00 - 3:00 Poster Session - General Space Weather Activities and Operational Services & Solar and

Interplanetary Research and Applications (Two Groupings)

3:00 - 4:40 Space and Ground Based Observations and Advances

Chair: Howard Singer, NOAA/SWPC

3:00 GOES-VW Workshop Summary

Rodney Viereck, NOAA/SWPC

3:20 Solar Data for Space Weather Forecasts from GONG

Frank Hill, National Solar Observatory

3:40 The Ionospheric Connection Explorer: ICON

Elsayed Talaat, NASA/Heliophysics

4:00 Imaging the Boundary Between Earth and Space - A Preview of Space Weather Data from the

Global-scale Observations of the Limb and Disk (GOLD) Mission

Richard Eastes, University of Central Florida

4:20 Impact of FORMOSAT-7/COSMIC-2 on Ionospheric Space Weather Monitoring

I-Te Lee, Central Weather Bureau - Taiwan

4:40 Space Weather Ballooning

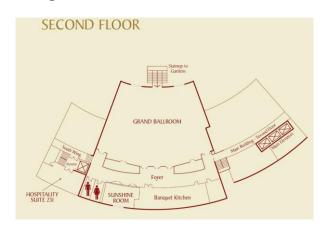
Tony Phillips, SpaceWeather.com

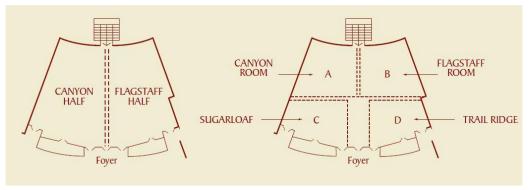
5:00 End of Session

5:30 - 7:30 9th Annual SWPC - Commercial Space Weather Interest Group (CSWIG) / American Commercial Space Weather Association (ACSWA) Summit Meeting - by invitation

Millennium Hotel Meeting Rooms







Wednesday, April 15

8:30 - 8:40 Space Weather Morning Forecast Brief

Dave Marshall, SWPC Space Weather Forecasting Office

8:40 - 10:10 Commercial Space Weather Interest Group (CSWIG)/

American Commercial Space Weather Association (ACSWA)

Roundtable Session: "Growing the Space Weather Enterprise"

Featured Speakers:

Major General Steve Denker, Director, Integrated Air, Space, Cyberspace and ISR Operations, Air Force Space Command

Space Weather - Key Element to Space Domain Awareness

Dr. David Chenette, President and CEO, Celdex Space, LLC

Success and Challenges in Government-Industry Partnering

Dr. Conrad C. Lautenbacher, Jr., Chief Executive Officer, GeoOptics, Inc.

Growing the Space Weather Enterprise: Building a Committed Partnership

Panel: Featured Speakers

Moderator and Organizer:

Dr. Devrie Intriligator, Director, Space Plasma Laboratory, Carmel Research Center, Inc.

10:10 - 10:30 Break

10:30 - 12:00 Panel: Agency Activities

Chair: Tom Berger, NOAA/SWPC

10:30 NASA Heliophysics Division

Lika Guhathakurta, NASA/Heliophysics

10:45 Space Weather Research at the National Science Foundation

Vladimir Papitashvili, NSF

11:00 United States Air Force Weather

Ralph Stoffler, AFW

11:15 National Weather Service

Bill Lapenta, NOAA/NWS

11:30 **NESDIS**

Greg Mandt, NOAA/NESDIS

11:45 Question and Answer Session

12:00 - 3:00 Lunch

1:00 - 3:00 Poster Session - Ionosphere Research and Applications

3:00 - 3:20 Superflares on Solar Type Stars and Their Implications on the Possibility of Superflares on the Sun

Kazunari Shibata, Kyoto University

3:20 - 4:40 Space Weather Impacts: Emerging Issues in Aviation

Chair: Robert Rutledge, NOAA/SWPC

3:20 NIOSH Aircrew Studies

CAPT Barbara Grajewski, U.S. Public Health Service

3:40 Rockwell Collins GLOBALink Voice Services / Impact of Solar Event on HF Communications

Hugh Pat Guido and Anthony Abate, Aeronautical Radio, Incorporated (ARINC)

4:00 EURADOS Activities on Space Weather Effects: Comparison of Codes Assessing Radiation Exposure of Aircraft Crew during Solar Energetic Particle Events

Peter Beck, Seibersdorf Laboratories

4:20 Establishment of Requirements for Space Weather Information Service by the International

Civil Aviation Organization (ICAO)

Terry Onsager, NOAA/SWPC

4:40 TBD

5:00 End of Session

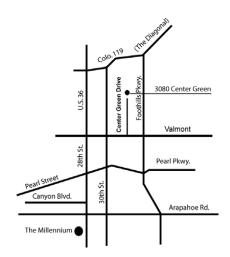
6:00 - 8:30 Banquet Dinner at UCAR Center Green Auditorium

Bus transportation available

Special Guest Speaker:

Dr. Sandy MacDonald

Director, NOAA's Earth System Research Laboratory "Science on a Sphere



Available Shuttle Bus to the Banquet:

There will be one 50 person bus departing the Millennium Hotel at 5:45 pm for anyone who wishes to ride to UCAR Center Green. The bus will depart the UCAR Center Green for the Millennium Hotel at 8:50 pm.

Parking:

Free parking is available at the UCAR Center Green Campus for those who wish to drive personal vehicles.

UCAR Center Green Campus Building 1 3080 Center Green Drive Boulder, CO 80301

Thursday, April 16

8:30 - 8:40	Space Weather Morning Forecast Brief Meghan Stockman, SWPC Space Weather Forecasting Office		
8:40 - 10:20	Space Weather Impacts: Power Grid (Continued) Chair: Chris Balch, NOAA/SWPC		
8:40	Solar Shield: Update and Path Forward Antti Pulkkinen, NASA/GSFC		
9:00	NERC Reliability Standards for Geomagnetic Disturbances Frank Koza, Pennsylvania-New Jersey-Maryland Interconnection (PJM)		
9:20	System Impact Modeling Tom Overbye, University of Illinois		
9:40	Assessing the Impact of Space Weather on the Electric Power Grid Based on Insurance Claims for Industrial Electrical Equipment Karel Schrijver, Lockheed Martin		
10:00	Information Needed from GMD Forecasters Trevor Gaunt, University of Cape Town		
10:20 - 10:40	Break		
10:40 - 12:00	Research to Operations (R2O) and Modeling Chair: Michele Cash, CIRES		
10:40	Space Weather Prediction Testbed: Status and Update Rodney Viereck, NOAA/SWPC		
11:00	Developmental Testbed Center: Facilitating R2O for Numerical Weather Prediction Louisa Nance, Developmental Testbed Center - NCAR		
11:20	Advancements in Empirical Geomagnetic Field Modeling During the THEMIS and Van Allen Probes Era Grant Stephens, Johns Hopkins University Applied Physics Laboratory		
11:40	Ensemble Assimilation Using First-Principles Models as a Tool for Three-Day Space Weather Forecasts Geoff Crowley, Atmospheric and Space Technology Research Associates (ASTRA)		
12:00 - 3:00	Lunch		
1:00 - 3:00	Poster Session - Magnetosphere Research and Applications		
3:00 - 3:20	Space Weather Journal Overview and Prospectus Delores Knipp, Space Weather Journal		
3:20 - 5:00	International Coordination of Space Weather Activities Chair: Terry Onsager, NOAA/SWPC		
3:20	Predicting Space Weather: Impact on Fugro Offshore Precise Positioning Services Yahya Memarzedeh, Fugro Worldwide		

3:40	International Committee on Global Navigation Satellite Systems (ICG) Shafa Gadimova, Office for Outers Space Affairs (UN)
4:00	State of GNSS in Africa: Applications, Observational Infrastructures, Research Implications and Prospects
	Babatunde Rabiu, Nigerian National Space Research and Development Agency
4:20	ESA SSA Space Weather Service System
	Juha-Pekka Luntama, European Space Agency (ESA)
4:40	UK Met Office Update
	Mark Gibbs, UK Met Office
5:00	End of Session

Friday, April 17

8:30 - 8:40	Space Weather Morning Forecast Brief Meghan Stockman, SWPC Space Weather Forecasting Office	
8:40 - 10:00	Research to Operations (R2O) and Modeling (Continued) Chair: Howard Singer, NOAA/SWPC	
8:40	Community Coordinated Modeling Center: Pioneering the Path from Research to Operations Masha Kuznetsova, NASA/CCMC	
9:00	Transitioning the SWMF Geospace Model into Operations at the National Weather Service George Millward, CIRES	
9:20	Integrated Dynamics in Earth's Atmosphere - IDEA Rodney Viereck, NOAA/SWPC	
9:40	WSA/ADAPT (Air Force Data Assimilative Photospheric Flux Transport) Nick Arge, Air Force Research Laboratory	
10:00 - 10:20	Break	
10:20 - 11:40	Space Weather: The Future Chair: Rodney Viereck, NOAA/SWPC	
10:20	Carrington L5 Mission Markos Trichas, Airbus Defense and Space	
10:40	Opportunities in the First Solar Maximum with Social Media Elizabeth MacDonald, NASA	
11:00	USGS Induction Hazard Science Jeff Love, USGS	
11:20	Four-Year Plan for World Meteorological Organization Space Weather Activities Terry Onsager, NOAA/SWPC	
11:40	Closing Remarks Tom Berger, NOAA/SWPC	
12:00		
12:00	End of Conference	